

BIOGRAPHICAL SKETCH

NAME: Marsha D. W. Ward

POSITION TITLE: Research Biologist

EDUCATION/TRAINING

Institution	Degree	Year	Field of Study
County College of Morris, Randolph Township, NJ	AAS	1973	Biology/Medical Laboratory Technology
North Carolina State University, School of Agriculture and Life Science, Raleigh, NC	BS	1981	Zoology
North Carolina State University, Raleigh, NC	Certificate	1985	Computer Programming
North Carolina State University, College of Veterinary Medicine, Raleigh, NC	MS	1988	Veterinary Medical Sciences
North Carolina State University, College of Veterinary Medicine, Raleigh, NC	PhD	1994	Immunology; minor: Biotechnology

PROFESSIONAL EXPERIENCE:

2001- present Research Biologist (Immunotoxicology), US Environmental Protection Agency, Research Triangle Park, North Carolina

1998-2001 Postdoctoral Fellow (Immunotoxicology), US Environmental Protection Agency, Research Triangle Park, North Carolina

1995-1998 Postdoctoral Trainee (Immunotoxicology), University of North Carolina, Curriculum in Toxicology, Chapel Hill, North Carolina

1994-1995 Visiting Scientist (Avian Immunology), North Carolina State University, College of Veterinary Medicine, Raleigh, North Carolina

PROFESSIONAL SOCIETIES:

Society of Toxicology (National Organization), 1997 – present

North Carolina Chapter of the Society of Toxicology, 1995 - present

INVITED LECTURES/SYMPOSIA:

Assessing the Allergic Potential of Indoor Air Fungal Contaminants. The 5th International Conference on Bioaerosols, Fungi, Bacteria, Mycotoxins and Human Health. Saratoga Springs, New York, September, 2003.

The Allergenic Potential of Indoor Air Fungal Contaminants. Indoor Air Quality Symposium, Research Triangle Park, NC, July 2003.

Respiratory Responses to the Biopesticide, *Metarhizium anisopliae*: Allergenic Assessment Of Proteinaceous Environmental Contaminants. Immunology Seminar Series, North Carolina State University, Raleigh, North Carolina, September 2000. - Respiratory Responses to the Biopesticide, *Metarhizium anisopliae*: An Approach to Assessing the Potential Allergenicity of proteinaceous Environmental Contaminants. Visiting Pulmonary Scholars Program at Duke University, November 1999.

Immune Responses of the Biopesticide *Metarhizium anisopliae*. "Mechanisms in Hapten and Protein-Mediated Hypersensitivity", Mechanisms of Immunotoxicology 13th Annual Conference, Morgantown, West Virginia, September 1998.

ASSISTANCE/LEADERSHIP PROVIDED TO THE SCIENTIFIC COMMUNITY:

North Carolina State University, College of Veterinary Medicine, Raleigh, North Carolina

Adjunct Assistant Professor

Ad hoc reviewer for Toxicological Sciences, Inhalation Toxicology, Toxicology and Applied Pharmacology, Human and Experimental Toxicology, and Photochemistry and Photobiology

Membership committee for SOT Immunotoxicology Specialty Section

ASSISTANCE/LEADERSHIP PROVIDED TO THE AGENCY:

Member of cross-laboratory toxicogenic mold research team
Member Implementation team for Biotechnology Research Program
Member Implementation team for goal 8.2 program
Diversity steering committee - Division Representative

PUBLICATIONS (From January 1, 1998 to present, 7 out of a total 11 publications):

1. Ward, M.D.W.; Sailstad, D.M.; and Selgrade, MJ.K. Allergic Responses to the Bio-pesticide, *Metarhizium anisopliae*, in BALB/C mice. *Toxicol. Sci.* 45: 195-203. 1998.
2. Ward, M.D.W.; Madison, S.L.; Sailstad, D.M.; Gavett, S.H.; and Selgrade, MJ.K. Allergen-triggered Airway Hyperresponsiveness and Lung Pathology in Mice Sensitized with the Biopesticide *Metarhizium anisopliae*. *Toxicology* 143(2): 141- 154. 2000.
3. Ward, M.D.W.; Madison, S.L.; Andrews, D.L.; Sailstad, D.M.; Gavett, S.H.; and Selgrade, MJ.K. Comparison of Respiratory Responses to *Metarhizium anisopliae* Extract Using Two Different Sensitization Protocols. *Toxicology* 147: 133-145. 2000.
4. Selgrade, MJ. K., A. L. Lambert, M. D. W. Ward, and M. I. Gilmour. Animal Models to Assess the Effects of Air Pollutants on Allergic Lung Disease. *Annals N.Y. Acad. Sci.* Lambach:2000.
5. Viana, Michael E.; Haykal Coates, Najwa; Gavett, Stephen H.; Selgrade, MaryJane K.; Vesper, Stephen J.; and Ward, Marsha D. W. An extract of *Stachybotrys chartarum* causes allergic asthma-like responses in a BALB/c mouse model. *Toxicol. Sci.* 70:98-109. 2002.
6. Ward, M.D.W.; Sailstad, D.M.; Andrews, D.L.; Boykin, E.H.; and Selgrade, MJ.K. Effects of Ultraviolet Radiation (UVR) on the Respiratory Allergic Responses of Balb/C Mice to a Fungal Allergen. (Submitted).
7. Sailstad, D.M.; Ward, M.D.W.; Boykin, E.H.; and Selgrade, MJ.K. A Murine Model for Low Molecular Weight Chemicals: Differentiation of Respiratory Sensitizers (TMA) from Contact Sensitizers (DNFB). (Submitted).

Book Chapter

1. Selgrade, MJ.K., Germolec, D.R., Luebke, R.W., Smialowicz, R.J. Ward, M.D.W., Sailstad, D.M. Immunotoxicity. *Introduction to Biochemical Toxicology*. 3rd Edition (E. Hodgson, and R.C. Smart, editors), J. Wiley and Sons, NY, NY. pp 561-597, 2001.